

## A VESSEL FOR CONTACTING FLUID PHASES

**Abstract:** A vessel to contact a vapor or gas with a liquid has a conduit through which a vapor or gas flows and is contacted by a liquid. A fluid guiding body confined within a vessel housing imparts a helical movement of the vapor or gas flowing through the vessel, disperses liquid into the flowing vapor or gas, and discharges the contacted vapor or gas and liquid separately from the vessel. Impurities in the vapor or gas stream are transferred from the vapor or gas stream to the liquid stream. Introducing a liquid having a temperature greater than or less than the temperature of the vapor or gas results in the transfer of heat to or from the vapor or gas.